**CyberBlitz 2024 Challenges (Palan)**

**a. Challenge Name**

GenetiCrypt

**b. Challenge Description**

This challenge involves multiple steps of cryptographic and data encoding techniques to uncover a hidden flag. Participants will need to consider reverse processes for common encoding techniques and think outside the box to decode the given data.

Find the Flag:

**1qrBxlx4wlx0wkrD1qN01rx4w0N0w0rD1qN4w1xDwlx0xlxB1q9Dwlx4wk90w0r41q9Bwlx4wlx0xkrB1q90w1xDxk901q941qND1rx4w0901q941q90w1xDwkr0wlx01rx4xlxD1qN0xlx01q90w1x41rx0xkrD1qN01rx0xk90xkr41q901rxDwlx0wkN01qND1rx4xlwVvqq/**

**Hints, if any**

1. A=00, T=01, C=?, G=?
2. Consider reversed processes for familiar encoding techniques.

**d. Steps documenting the techniques, procedures, and thought processes to solve your challenge.  
  
Step 1:**

**Decrypt the provided text from esab46 (reverse of Base64):**

Decode the provided Base64 encoded string back to its original form.  
  
URL: http://qbarbe.free.fr/crypto/eng\_esab46c.php

A screenshot of a computer

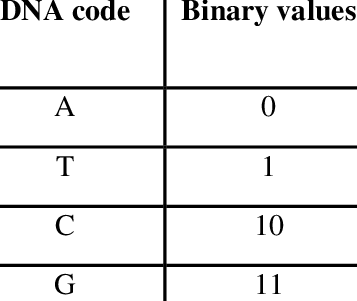
Description automatically generated

Decrypt:  
A screenshot of a computer

Description automatically generated

Based on research, this result is similar to dna encoded string

URL: <https://www.researchgate.net/figure/DNA-Mapping-with-Binary-Values_tbl1_364057582>



Step 2: Write a script to map each letter into 2 bit forming a binary string

A screenshot of a computer

Description automatically generated

Step 3: Convert the result into ASCII

A screenshot of a computer program

Description automatically generated

Flag is obtained!  
CyberBlitz{Crypto\_is\_the\_future\_suiii}